

WHAT IS CLAIMED IS:

1. An apparatus comprising:

first means for providing carrier signals modulated by information signals in a particular frequency range;

5 second means for oversampling the information signals at a first particular frequency greater than twice the bandwidth in the particular frequency range to provide digital signals at a particular frequency dependent upon the relationship between the first particular frequency and the frequencies in the particular
10 frequency range;

third means for operating upon the digital signals to recover the information represented by the information signals; and

fourth means responsive to the operation of the third means
15 for providing a feedback to the third means to provide for the oversampling to the information signals in the middle of the information signals thereby to facilitate the recovery by the third means of the information represented by the information signals.